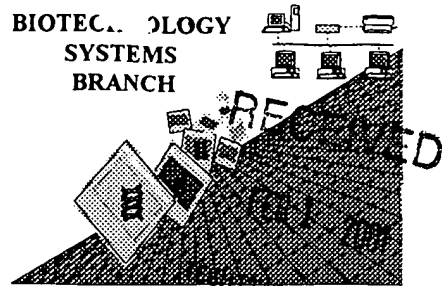


Brannock

BIOTECHNOLOGY  
SYSTEMS  
BRANCH

**RAW SEQUENCE LISTING**  
**ERROR REPORT**



#8

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/435,733  
Source: 1646  
Date Processed by STIC: 1/23/2001

RECEIVED  
FEB 1 2001  
TECH CENTER 1600/2900

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.  
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:  
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,  
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY  
FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.  
PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)  
PATENTIN 3.0 e-mail help: [patin30help@uspto.gov](mailto:patin30help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

**Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25. Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:  
<http://www.uspto.gov/web/offices/pac/checker>

1646

RAW SEQUENCE LISTING DATE: 01/23/2001  
 PATENT APPLICATION: US/09/435,733 TIME: 14:42:37

Input Set : A:\BIV-52.02 Sequence Listing.txt  
 Output Set: N:\CRF3\01232001\I435733.raw

p.6

**Does Not Comply**  
**Corrected Diskette Needed**

```

3 <110> APPLICANT: Galdes, Alphonse
4 Mahanthappa, Nagesh
6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING OR PREVENTING
7 PERIPHERAL NEUROPATHIES
9 <130> FILE REFERENCE: BIV-052.02
11 <140> CURRENT APPLICATION NUMBER: 09/435,733
12 <141> CURRENT FILING DATE: 1999-11-08
14 <160> NUMBER OF SEQ ID NOS: 28
16 <170> SOFTWARE: PatentIn Ver. 2.0
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 1277
20 <212> TYPE: DNA
21 <213> ORGANISM: chicken Shh
23 <220> FEATURE:
24 <221> NAME/KEY: CDS
25 <222> LOCATION: (1)..(1275)
27 <400> SEQUENCE: 1
28 atg gtc gaa atg ctg ctg ttg aca aga att ctc ttg gtg ggc ttc atc 48
29 Met Val Glu Met Leu Leu Leu Thr Arg Ile Leu Leu Val Gly Phe Ile
30 1 5 10 15
32 tgc gct ctt tta gtc tcc tct ggg ctg act tgt gga cca ggc agg ggc 96
33 Cys Ala Leu Leu Val Ser Ser Gly Leu Thr Cys Gly Pro Gly Arg Gly
34 20 25 30
36 att gga aaa agg agg cac ccc aaa aag ctg acc ccg tta gcc tat aag 144
37 Ile Gly Lys Arg Arg His Pro Lys Lys Leu Thr Pro Leu Ala Tyr Lys
38 35 40 45
40 cag ttt att ccc aat gtg gca gag aag acc cta ggg gcc agt gga aga 192
41 Gln Phe Ile Pro Asn Val Ala Glu Lys Thr Leu Gly Ala Ser Gly Arg
42 50 55 60
44 tat gaa ggg aag atc aca aga aac tcc gag aga ttt aaa gaa cta acc 240
45 Tyr Glu Gly Lys Ile Thr Arg Asn Ser Glu Arg Phe Lys Glu Leu Thr
46 65 70 75 80
48 cca aat tac aac cct gac att att ttt aag gat gaa gag aac acg gga 288
49 Pro Asn Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly
50 85 90 95
52 gct gac aga ctg atg act cag cgc tgc aag gac aag ctg aat gcc ctg 336
53 Ala Asp Arg Leu Met Thr Gln Arg Cys Lys Asp Lys Leu Asn Ala Leu
54 100 105 110
56 gcg atc tcg gtg atg aac cag tgg ccc ggg gtg aag ctg cgg gtg acc 384
57 Ala Ile Ser Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg Val Thr
58 115 120 125
60 gag ggc tgg gac gag gat ggc cat cac tcc gag gaa tcg ctg cac tac 432
61 Glu Gly Trp Asp Glu Asp Gly His His Ser Glu Glu Ser Leu His Tyr
62 130 135 140
64 gag ggt cgc gcc gtg gac atc acc acg tcg gat cgg gac cgc agc aag 480
65 Glu Gly Arg Ala Val Asp Ile Thr Thr Ser Asp Arg Asp Arg Ser Lys
66 145 150 155 160

```

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/435,733 DATE: 01/23/2001  
 TIME: 14:42:37

Input Set : A:\BIV-52.02 Sequence Listing.txt  
 Output Set: N:\CRF3\01232001\I435733.raw

```

68 tac gga atg ctg gcc cgc ctc gcc gtc gag gcc ggc ttc gac tgg gtc 528
69 Tyr Gly Met Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp Trp Val
70 165 170 175
72 tac tac gag tcc aag gcg cac atc cac tgc tcc gtc aaa gca gaa aac 576
73 Tyr Tyr Glu Ser Lys Ala His Ile His Cys Ser Val Lys Ala Glu Asn
74 180 185 190
76 tca gtg gca gcg aaa tca gga ggc tgc ttc cct gcc tca gcc aca gtg 624
77 Ser Val Ala Ala Lys Ser Gly Gly Cys Phe Pro Gly Ser Ala Thr Val
78 195 200 205
80 cac ctg gag cat gga ggc acc aag ctg gtg aag gac ctg agc cct ggg 672
81 His Leu Glu His Gly Gly Thr Lys Leu Val Lys Asp Leu Ser Pro Gly
82 210 215 220
84 gac cgc gtg ctg gct gct gac gcg gac ggc cgg ctg ctc tac agt gac 720
85 Asp Arg Val Leu Ala Ala Asp Ala Asp Gly Arg Leu Leu Tyr Ser Asp
86 225 230 235 240
88 ttc ctc acc ttc ctc gac cgg atg gac agc tcc cga aag ctc ttc tac 768
89 Phe Leu Thr Phe Leu Asp Arg Met Asp Ser Ser Arg Lys Leu Phe Tyr
90 245 250 255
92 gtc atc gag acg cgg cag ccc cgg gcc cgg ctg cta ctg acg gcg gcc 816
93 Val Ile Glu Thr Arg Gln Pro Arg Ala Arg Leu Leu Leu Thr Ala Ala
94 260 265 270
96 cac ctg ctc ttt gtg gcc ccc cag cac aac cag tcg gag gcc aca ggg 864
97 His Leu Leu Phe Val Ala Pro Gln His Asn Gln Ser Glu Ala Thr Gly
98 275 280 285
100 tcc acc agt ggc cag gcg ctc ttc gcc agc aac gtg aag cct ggc caa 912
101 Ser Thr Ser Gly Gln Ala Leu Phe Ala Ser Asn Val Lys Pro Gly Gln
102 290 295 300
104 cgt gtc tat gtg ctg ggc gag ggc ggg cag cag ctg ctg ccg gcg tct 960
105 Arg Val Tyr Val Leu Gly Glu Gly Gly Gln Gln Leu Leu Pro Ala Ser
106 305 310 315 320
108 gtc cac agc gtc tca ttg cgg gag gag gcg tcc gga gcc tac gcc cca 1008
109 Val His Ser Val Ser Leu Arg Glu Glu Ala Ser Gly Ala Tyr Ala Pro
110 325 330 335
112 ctc acc gcc cag ggc acc atc ctc atc aac cgg gtg ttg gcc tcc tgc 1056
113 Leu Thr Ala Gln Gly Thr Ile Leu Ile Asn Arg Val Leu Ala Ser Cys
114 340 345 350
116 tac gcc gtc atc gag gag cac agt tgg gcc cat tgg gcc ttc gca cca 1104
117 Tyr Ala Val Ile Glu Glu His Ser Trp Ala His Trp Ala Phe Ala Pro
118 355 360 365
120 ttc cgc ttg gct cag ggg ctg ctg gcc gcc ctc tgc cca gat ggg gcc 1152
121 Phe Arg Leu Ala Gln Gly Leu Leu Ala Ala Leu Cys Pro Asp Gly Ala
122 370 375 380
124 atc cct act gcc gcc acc acc acc act ggc atc cat tgg tac tca cgg 1200
125 Ile Pro Thr Ala Ala Thr Thr Thr Thr Gly Ile His Trp Tyr Ser Arg
126 385 390 395 400
128 ctc ctc tac cgc atc ggc agc tgg gtg ctg gat ggt gac gcg ctg cat 1248
129 Leu Leu Tyr Arg Ile Gly Ser Trp Val Leu Asp Gly Asp Ala Leu His
130 405 410 415
132 ccg ctg ggc atg gtg gca ccg gcc agc tg 1277

```

RAW SEQUENCE LISTING                      DATE: 01/23/2001  
 PATENT APPLICATION: US/09/435,733        TIME: 14:42:37

Input Set : A:\BIV-52.02 Sequence Listing.txt  
 Output Set: N:\CRF3\01232001\I435733.raw

```

133 Pro Leu Gly Met Val Ala Pro Ala Ser
134           420           425
136 <210> SEQ ID NO: 2
137 <211> LENGTH: 1190
138 <212> TYPE: DNA
139 <213> ORGANISM: mouse Dhh
141 <220> FEATURE:
142 <221> NAME/KEY: CDS
143 <222> LOCATION: (1)..(1188)
145 <400> SEQUENCE: 2
146 atg gct ctg ccg gcc agt ctg ttg ccc ctg tgc tgc ttg gca ctc ttg 48
147 Met Ala Leu Pro Ala Ser Leu Leu Pro Leu Cys Cys Leu Ala Leu Leu
148 1 5 10 15
150 gca cta tct gcc cag agc tgc ggg ccg ggc cga gga ccg gtt ggc cgg 96
151 Ala Leu Ser Ala Gln Ser Cys Gly Pro Gly Arg Gly Pro Val Gly Arg
152 20 25 30
154 cgg cgt tat gtg cgc aag caa ctt gtg cct ctg cta tac aag cag ttt 144
155 Arg Arg Tyr Val Arg Lys Gln Leu Val Pro Leu Leu Tyr Lys Gln Phe
156 35 40 45
158 gtg ccc agt atg ccc gag cgg acc ctg ggc gcg agt ggg cca gcg gag 192
159 Val Pro Ser Met Pro Glu Arg Thr Leu Gly Ala Ser Gly Pro Ala Glu
160 50 55 60
162 ggg agg gta aca agg ggg tcg gag cgc ttc cgg gac ctc gta ccc aac 240
163 Gly Arg Val Thr Arg Gly Ser Glu Arg Phe Arg Asp Leu Val Pro Asn
164 65 70 75 80
166 tac aac ccc gac ata atc ttc aag gat gag gag aac agc ggc gca gac 288
167 Tyr Asn Pro Asp Ile Phe Lys Asp Glu Glu Asn Ser Gly Ala Asp
168 85 90 95
170 cgc ctg atg aca gag cgt tgc aaa gag cgg gtg aac gct cta gcc atc 336
171 Arg Leu Met Thr Glu Arg Cys Lys Glu Arg Val Asn Ala Leu Ala Ile
172 100 105 110
174 gcg gtg atg aac atg tgg ccc gga gta cgc cta cgt gtg act gaa ggc 384
175 Ala Val Met Asn Met Trp Pro Gly Val Arg Leu Arg Val Thr Glu Gly
176 115 120 125
178 tgg gac gag gac ggc cac cac gca cag gat tca ctc cac tac gaa ggc 432
179 Trp Asp Glu Asp Gly His His Ala Gln Asp Ser Leu His Tyr Glu Gly
180 130 135 140
182 cgt gcc ttg gac atc acc acg tct gac cgt gac cgt aat aag tat ggt 480
183 Arg Ala Leu Asp Ile Thr Thr Ser Asp Arg Asp Arg Asn Lys Tyr Gly
184 145 150 155 160
186 ttg ttg gcg cgc cta gct gtg gaa gcc gga ttc gac tgg gtc tac tac 528
187 Leu Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp Trp Val Tyr Tyr
188 165 170 175
190 gag tcc cgc aac cac atc cac gta tcg gtc aaa gct gat aac tca ctg 576
191 Glu Ser Arg Asn His Ile His Val Ser Val Lys Ala Asp Asn Ser Leu
192 180 185 190
194 gcg gtc cga gcc gga ggc tgc ttt ccg gga aat gcc acg gtg cgc ttg 624
195 Ala Val Arg Ala Gly Gly Cys Phe Pro Gly Asn Ala Thr Val Arg Leu
196 195 200 205

```

RAW SEQUENCE LISTING                      DATE: 01/23/2001  
 PATENT APPLICATION: US/09/435,733                      TIME: 14:42:38

Input Set : A:\BIV-52.02 Sequence Listing.txt  
 Output Set: N:\CRF3\01232001\I435733.raw

```

198 cgg agc ggc gaa cgg aag ggg ctg agg gaa cta cat cgt ggt gac tgg 672
199 Arg Ser Gly Glu Arg Lys Gly Leu Arg Glu Leu His Arg Gly Asp Trp
200      210      215      220
202 gta ctg gcc gct gat gca gcg ggc cga gtg gta ccc acg cca gtg ctg 720
203 Val Leu Ala Ala Asp Ala Ala Gly Arg Val Val Pro Thr Pro Val Leu
204 225      230      235      240
206 ctc ttc ctg gac cgg gat ctg cag cgc cgc gcc tcg ttc gtg gct gtg 768
207 Leu Phe Leu Asp Arg Asp Leu Gln Arg Arg Ala Ser Phe Val Ala Val
208      245      250      255
210 gag acc gag cgg cct ccg cgc aaa ctg ttg ctc aca ccc tgg cat ctg 816
211 Glu Thr Glu Arg Pro Pro Arg Lys Leu Leu Leu Thr Pro Trp His Leu
212      260      265      270
214 gtg ttc gct gct cgc ggg cca gcg cct gct cca ggt gac ttt gca ccg 864
215 Val Phe Ala Ala Arg Gly Pro Ala Pro Ala Pro Gly Asp Phe Ala Pro
216      275      280      285
218 gtg ttc gcg cgc cgc tta cgt gct ggc qac tcg gtg ctg gct ccc ggc 912
219 Val Phe Ala Arg Arg Leu Arg Ala Gly Asp Ser Val Leu Ala Pro Gly
220      290      295      300
222 ggg gac gcg ctc cag ccg gcg cgc gta gcc cgc gtg gcg cgc gag gaa 960
223 Gly Asp Ala Leu Gln Pro Ala Arg Val Ala Arg Val Ala Arg Glu Glu
224 305      310      315      320
226 gcc gtg ggc gtg ttc gca ccg ctc act gcg cac ggg acg ctg ctg gtc 1008
227 Ala Val Gly Val Phe Ala Pro Leu Thr Ala His Gly Thr Leu Leu Val
228      325      330      335
230 aac gac gtc ctc gcc tcc tgc tac gcg gtt cta gag agt cac cag tgg 1056
231 Asn Asp Val Leu Ala Ser Cys Tyr Ala Val Leu Glu Ser His Gln Trp
232      340      345      350
234 gcc cac cgc gcc ttc gcc cct ttg cgg ctg ctg cac gcg ctc ggg gct 1104
235 Ala His Arg Ala Phe Ala Pro Leu Arg Leu Leu His Ala Leu Gly Ala
236      355      360      365
238 ctg ctc cct ggg ggt gca gtc cag ccg act ggc atg cat tgg tac tct 1152
239 Leu Leu Pro Gly Gly Ala Val Gln Pro Thr Gly Met His Trp Tyr Ser
240      370      375      380
242 cgc ctc ctt tac cgc ttg gcc gag gag tta atg ggc tg 1190
243 Arg Leu Leu Tyr Arg Leu Ala Glu Glu Leu Met Gly
244 385      390      395

246 <210> SEQ ID NO: 3
247 <211> LENGTH: 1281
248 <212> TYPE: DNA
249 <213> ORGANISM: mouse 1hh
251 <220> FEATURE:
252 <221> NAME/KEY: CDS
253 <222> LOCATION: (1)..(1233)
255 <400> SEQUENCE: 3
256 atg tct ccc gcc tgg ctc cgg ccc cga ctg cgg ttc tgt ctg ttc ctg 48
257 Met Ser Pro Ala Trp Leu Arg Pro Arg Leu Arg Phe Cys Leu Phe Leu
258 1      5      10      15
260 ctg ctg ctg ctt ctg gtg ccg gcg gcg ggc tgc ggg ccg gcc cgg 96
261 Leu Leu Leu Leu Leu Val Pro Ala Ala Arg Gly Cys Gly Pro Gly Arg

```

## RAW SEQUENCE LISTING

DATE: 01/23/2001

PATENT APPLICATION: US/09/435,733

TIME: 14:42:38

Input Set : A:\BIV-52.02 Sequence Listing.txt

Output Set: N:\CRF3\01232001\I435733.raw

262	20	25	30	
264	gtg gtg ggc agc cgc cgg agg ccg cct cgc aag ctc gtg cct ctt gcc	144		
265	Val Val Gly Ser Arg Arg Arg Pro Pro Arg Lys Leu Val Pro Leu Ala			
266	35 40 45			
268	tac aag cag ttc agc ccc aac gtg ccg gag aag acc ctg ggc gcc agc	192		
269	Tyr Lys Gln Phe Ser Pro Asn Val Pro Glu Lys Thr Leu Gly Ala Ser			
270	50 55 60			
272	ggg cgc tac gaa ggc aag atc gcg cgc agc tct gag cgc ttc aaa gag	240		
273	Gly Arg Tyr Glu Gly Lys Ile Ala Arg Ser Ser Glu Arg Phe Lys Glu			
274	65 70 75 80			
276	ctc acc ccc aac tac aat ccc gac atc atc ttc aag gac gag gag aac	288		
277	Leu Thr Pro Asn Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn			
278	85 90 95			
280	acg ggt gcc gac cgc ctc atg acc cag cgc tgc aag gac cgt ctg aac	336		
281	Thr Gly Ala Asp Arg Leu Met Thr Gln Arg Cys Lys Asp Arg Leu Asn			
282	100 105 110			
284	tca ctg gcc atc tct gtc atg aac cag tgg cct ggt gtg aaa ctg cgg	384		
285	Ser Leu Ala Ile Ser Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg			
286	115 120 125			
288	gtg acc gaa ggc cgg gat gaa gat ggc cat cac tca gag gag tct tta	432		
289	Val Thr Glu Gly Arg Asp Glu Asp Gly His His Ser Glu Glu Ser Leu			
290	130 135 140			
292	cac tat gag ggc cgc gcg gtg gat atc acc acc tca gac cgt gac cga	480		
293	His Tyr Glu Gly Arg Ala Val Asp Ile Thr Thr Ser Asp Arg Asp Arg			
294	145 150 155 160			
296	aat aag tat gga ctg ctg gcg cgc tta gca gtg gag gcc ggc ttc gac	528		
297	Asn Lys Tyr Gly Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp			
298	165 170 175			
300	tgg gtg tat tac gag tcc aag gcc cac gtg cat tgc tct gtc aag tct	576		
301	Trp Val Tyr Tyr Glu Ser Lys Ala His Val His Cys Ser Val Lys Ser			
302	180 185 190			
304	gag cat tgc gcc gct gcc aag aca ggt ggc tgc ttt cct gcc gga gcc	624		
305	Glu His Ser Ala Ala Ala Lys Thr Gly Gly Cys Phe Pro Ala Gly Ala			
306	195 200 205			
308	cag gtg cgc cta gag aac ggg gag cgt gtg gcc ctg tca gct gta aag	672		
309	Gln Val Arg Leu Glu Asn Gly Glu Arg Val Ala Leu Ser Ala Val Lys			
310	210 215 220			
312	cca gga gac cgg gtg ctg gcc atg ggg gag gat ggg acc ccc acc ttc	720		
313	Pro Gly Asp Arg Val Leu Ala Met Gly Glu Asp Gly Thr Pro Thr Phe			
314	225 230 235 240			
316	agt gat gtg ctt att ttc ctg gac cgc gag cca aac cgg ctg aga gct	768		
317	Ser Asp Val Leu Ile Phe Leu Asp Arg Glu Pro Asn Arg Leu Arg Ala			
318	245 250 255			
320	ttc cag gtc atc gag act cag gat cct ccg cgt cgg ctg gcg ctc acg	816		
321	Phe Gln Val Ile Glu Thr Gln Asp Pro Pro Arg Arg Leu Ala Leu Thr			
322	260 265 270			
324	cct gcc cac ctg ctc ttc att gcg gac aat cat aca gaa cca gca gcc	864		
325	Pro Ala His Leu Leu Phe Ile Ala Asp Asn His Thr Glu Pro Ala Ala			
326	275 280 285			

## PATENT APPLICATION: US/09/435,733

TIME: 14:42:39

Output Set: N:\CRF3\01232001\I435733.raw

1/23/01

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/435,733

DATE: 01/23/2001

TIME: 14:42:39

Input Set : A:\BIV-52.02 Sequence Listing.txt

Output Set: N:\CRF3\01232001\I435733.raw

L:2195 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2196 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2197 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2198 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2199 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2200 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2201 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2202 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2203 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2204 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2205 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2206 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2207 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2208 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2209 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2210 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2211 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2212 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2213 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2214 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2215 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2216 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2217 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2218 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2219 M:259 W: Field exceeds allowed number of lines, <223> Other Information:  
L:2222 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:2222 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:2222 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:22  
L:2225 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:2225 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
M:340 Repeated in SeqNo=22  
L:2228 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:2228 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:2231 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:2231 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:2234 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:2234 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:2237 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:2237 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:2240 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:2240 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:2243 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:2243 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:2246 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:2246 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:2249 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:2249 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22  
L:2252 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:22  
L:2252 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:22



09/435,733

6

Please consult 1.823 of new  
Sequence Rules.

<210> 21  
<211> 221  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: degenerate  
polypeptide sequence

mandatory numeric  
identifiers and  
responses  
whenever "n" or  
"Xaa" is shown.

(2217) →  
(2227) →

<220>

<223> Xaa(7) represents Gly, Ala, Val, Leu, Ile, Phe, Tyr  
or Trp; Xaa(9) represents Arg, His or Lys; Xaa(44) represents  
Gly, Ala, Val, Leu, Ile, Ser or Thr; Xaa(85) represents Gly,  
Ala, Val, Leu, Ile, Ser or Thr; Xaa(93) represents Lys, Arg,  
His, Asn or Gln; Xaa(98) represents Lys, Arg or His; Xaa(112)  
represents Ser, Thr, Tyr, Trp or Phe; Xaa(132) represents Lys,  
Arg or His; Xaa(137) represents Met, Cys, Ser or Thr; Xaa(139)  
represents Gly, Ala, Val, Leu, Ile, Ser or Thr; Xaa(181)  
represents Leu, Val, Met, Thr or Ser; Xaa(183) represents His,  
Phe, Tyr, Ser, Thr, Met or Cys; Xaa(185) represents Gln, Asn,  
Glu, or Asp; Xaa(186) represents His, Phe, Tyr, Thr, Gln, Asn,  
Glu or Asp; Xaa(189) represents Gln, Asn, Glu, Asp, Thr, Ser,  
Met or Cys; Xaa(191) represents Ala, Gly, Cys, Leu, Val or Met;  
Xaa(196) represents Arg, Lys, Met, Ile, Asn, Asp, Glu, Gln, Ser,  
Thr or Cys; Xaa(200) represents Arg, Lys, Met or Ile; Xaa(206)  
represents Ala, Gly, Cys, Asp, Glu, Gln, Asn, Ser, Thr or Met;  
Xaa(207) represents Ala, Gly, Cys, Asp, Asn, Glu or Gln; Xaa(209)  
represents Arg, Lys, Met, Ile, Asn, Asp, Glu or Gln; Xaa(211)  
represents Leu, Val, Met or Ile; Xaa(212) represents Phe, Tyr,  
Thr, His or Trp; Xaa(216) represents Ile, Val, Leu or Met;  
Xaa(217) represents Met, Cys, Ile, Leu, Val, Thr or Ser; Xaa(219)  
represents Leu, Val, Met, Thr or Ser. In an even more expansive  
library, each Xaa can be selected from any amino acid.

← second  
section

Per 1.823 of new Sequence Rules, each <223> section has  
a maximum of four lines. Please divide current <223>  
section into groups of 4 lines each. Please precede  
each <223> section with the numeric identifier <220>;  
it is a "header" only - no response.

Please edit Sequence 22, too.

**Please Note:**

Use f n and/or Xaa have been detected in the Sequence Listing. Please review the  
Sequence Listing to ensure that a corresponding explanation is presented in the <220> to  
<223> fields for each sequence which presents at least one n or Xaa.

FYI